

International Journal of Biometeorology

Journal of the International Society of Biometeorology

edited by

W.H. Weihe
Editor-in-Chief

S.W. Tromp
Executive Editor

N.S.G. Hyslop
Editor-in-Chief

VOLUME 19
1975

Published by Swets & Zeitlinger B.V., Amsterdam

4543

15

CONTENTS OF VOLUME 19
NUMBER 1 - MARCH 1975

Editorial	1
The Energy Budget of Man: Variations with Aspect in a Downtown Urban Environment. S.E. Tuller	2-13
Estimates of Atmospheric Attenuation of Solar Radiation at Specific Wave Lengths. W.L. Decker and A.K. Mahapatra	14-20
Leaf Temperatures under Controlled Environmental Conditions. N. Barthakur	21-27
Seasonal Waves of Asthma: A Possible Botanical Cause. R.L. Specht, Yvonne M. Brouwer and E.H. Derrick	28-36
Psychological Test Performance during Climatic Heat Stress from Dessert Winds. Y. Rim	37-40
Effects of Daily and Intermittent Exposures on Heat Acclimation of Women. J.T. Fein, E.M. Haymes and E.R. Buskirk	41-52
Analysis of Shivering in Nonperipheral Cooling during Pyrogen Fever G.M. Al-Hachim and J. Frens	53-55
Human Reaction Time Variability Changes from Low Intensity 3-Hz and 10-Hz Electric Fields: Interactions with Stimulus Pattern, Sex and Field Intensity. M.A. Persinger, G.F. Lafrenière and D.N. Mainprize	56-64
Air Ion Action on Bacteria. A.P. Krueger, E.J. Reed, K.B. Brook and M.B. Day	65-71
REPORTS: Eleventh Report from the Japanese Society of Biometeorology. Matsumoto, 22 - 24 November 1972	72-83

NUMBER 2 - JUNE 1975

Seasonal Variation in the Incidence of Peptic Ulcer Perforation. Y.G. Bodhe and R.Y. Mokashi	85- 92
Age as a Cause of Chronic Mountain Sickness (Monge's Disease). F. Sime, C. Monge and J. Whitembury	93- 98
Thermoregulatory Responses to Heat and Exercise in Japanese and Caucasians. K. Ohara, N. Okuda and S. Takaba	99-107
Lag Responses in Mood Reports to Changes in the Weather Matrix. M.A. Persinger	108-114
Hair Follicle Measurements in Some Tropical and Temperate Breeds of Cattle in Nigeria. S.F. Amakiri and D.H. Hill	115-121
Weather Dependent Behaviour of Captive Striped Hyenas. (<i>Hyaenas hyaena</i>). I. Rieger and W.H. Weihe	122-126
Plasma Cortisol in Cattle: Circadian Rhythm and Exposure to a Simulated High Altitude of 5,000 m. F.L. Hays, H. Armbruster, W. Vetter and W. Bianca	127-135

NUMBER 3 - NOVEMBER 1975

Immune Response in Human Subjects at High Altitude. I.S.Chohan, I.Singh, K.Balakrishnan and G.P.Talwar	137-143
Blood Coagulation and Immunological Changes Associated with Frostbite and High Altitude. I.S.Chohan, I.Singh and K.Balakrishnan	144-154
Responses of Calves to a Simulated Altitude of 5000 m. W.Blanca and F.L.Hays	155-165
Influences des facteurs météorologiques sur la variabilité de la magnésémie chez l'homme. P.Darlu	166-173
Micrometeorological Factors Involved in Development and Survival of Free-Living Stages of the Sheep Nematodes <i>Haemonchus contortus</i> and <i>Trichostrongylus columbriformis</i> : A Review. N.D.Levine and K.S.Todd, Jr	174-183
A Comparative Study on Sweating Pattern and Heat Tolerance; A Field Study on Residents of Okinawa in Summer. S.Hori, M.Nakamura, K.Sugawara, A.Inouye and H.Ihzuoka	184-193
A Study of the Biological Effects of Certain ELF Electromagnetic Fields. A.P.Krueger and E.J.Reed	194-201
Effects of the Sharav and Bora on Urinary Neurohormone Excretion in 500 Weather-Sensitive Females. F.G.Sulman, D.Levy, Y.Pfeifer, E.Superstine and E.Tal	202-209
Kältegefühl in einem Fichtenwald. H.Mayer and G.Gietl	210-216

NUMBER 4 - DECEMBER 1975

Symposium on Photoperiodism and the Pineal Gland
Held during the 7th Int. Biometeorological Congress
17-23 August 1975, College Park, Maryland, USA

Chairman: G.E.Folk Jr

Reports edited by: D.C.Dawson

Photoperiodism and the Physiology of the Pineal Gland. Introduction. G.E.Folk, Jr	217-218
Stable Daily Light Regimes as Inductive Factors of Endogenous Testicular Cycles in the European Starling, <i>Sturnus vulgaris</i> . R.G.Schwab and J.T.Rutledge	219-231
Circadian Activity of the Red Squirrel, <i>Tamiasciurus hudsonicus</i> , in Continuous Darkness and Continuous Illumination. K.R.Kramm	232-245
The Influence of Environmental Lighting on the Amphibian Pars Intermedia: Receptors and Possible Pathways. D.C.Dawson	246-254
Effect of Photoperiods on Feed Intake Rhythms of Domestic Fowl. P.D.Ballard and H.V.Biellier	255-266

Melatonin Excretion of Man and Rats: Effect of Time of Day, Sleep, Pinealectomy and Food Consumption. H.J. Lynch, Y.Ozaki, D.Shakal and R.J.Wurtman	267-279
Light and the Pineal Gland in the Control of the Breeding Season in the Female Ferret. J.Herbert, P.A.Thorpe and M.Klinowska	280-281
The Pineal Gland and Seasonal Reproductive Adjustments. R.J.Reiter	282-288
The Pineal Organ and Geographical Distribution of Animals. C.L.Ralph	289-303
Continuous Light and Physiology of Arctic Birds and Mammals. L.S.Underwood	304-310

AUTHOR INDEX

- Al-Hachim, G.M. 53
 Amakiri, S.F. 115
 Armbruster, H. 127
 Balakrishnan, K. 137, 144
 Ballard, P.D. 255
 Barthakur, N. 21
 Bianca, W. 155, 127
 Biellier, H.V. 255
 Bodhe, Y.G. 85
 Brook, K.B. 65
 Brouwer, Yvonne M. 28
 Buskirk, E.R. 41
 Chohan, I.S. 137, 144
 Darlu, P. 166
 Dawson, D.C. 246
 Day, M.B. 166
 Decker, W.L. 14
 Derrick, E.H. 28
 Fein, J.T. 41
 Folk, G.E. Jr. 217
 Frens, J. 53
 Gietl, G. 210
 Haymes, E.M. 41
 Hays, F.L. 127, 155
 Herbert, J. 280
 Hill, D.H. 115
 Hori, S. 184
 Ihzuka, H. 184
 Inouye, A. 184
 Klinowska, M. 280
 Kramm, K.R. 232
 Krueger, A.P. 65, 194
 Lafrenière, G.F. 56
 Levine, N.D. 174
 Levy, D. 202
 Lynch, H.J. 267
 Mahapatra, A.K. 14
 Mainprize, D.N. 56
 Mayer, H. 210
 Mokashi, R.Y. 85
 Monge, C. 93
 Nakamura, M. 184
 Ohara, K. 99
 Okuda, N. 99
 Ozaki, Y. 267
 Persinger, M.A. 56, 108
 Pfeifer, Y. 202
 Ralph, C.L. 289
 Reed, E.J. 65, 194
 Reiter, R.J. 282
 Rieger, I. 122
 Rim, Y. 37
 Rutledge, J.T. 219
 Schwab, R.G. 219
 Shakal, D. 267
 Sime, F. 93
 Singh, I. 137, 144
 Specht, R.L. 28
 Sugawara, K. 184
 Sulman, F.G. 202
 Superstine, E. 202
 Takaba, S. 99
 Tal, E. 202
 Talwar, G.P. 137
 Thorpe, P.A. 280
 Todd, Jr. 174
 Tuller, S.E. 2
 Underwood, L.S. 304
 Vetter, W. 127
 Weihe, W.H. 122
 Whittembury, J. 93
 Wurtman, R.J. 267

